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## Agricultural Experiment Station News July 1972

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UNIVERSITY OF NEBRASKA-LINCOLN  
COLLEGE OF AGRICULTURE  
THE AGRICULTURAL EXPERIMENT STATION  
E. F. FROLIK, DEAN  
H. W. OTTOSON, DIRECTOR

# Agricultural Experiment Station

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November  
Vol. 5, Number 5, 1972

## FROM THE DIRECTOR'S OFFICE

Periodically, any organization needs to examine its own operations, and make changes which might improve efficiency. Dr. Kleis, Dr. Sahs, and I analyzed our work a few weeks ago, and agreed on the following "division of labor" in our office. We provide it to you, first for your information, and second, to help you in knowing whom to contact about what!

Of course, the Director is responsible for the Station and its program. You are welcome to discuss any topic with the Director for any reason.

### OTTOSON

### KLEIS

### SAHS

General Policy	Facilities	Field Lab Supervisor
General Research planning and adjustments	Major technical equipment	a) in charge of unassigned areas
Staff administration	Grants and contracts	b) general purview of maintenance, development, house-keeping in assigned areas
Budgets and financial management	Regional Station staff relationships	
Publications	Project monitoring and management	c) general purview of Field Lab Programs
Travel	a) Records	d) public relations
Project reviews	b) Reports	
External relations	c) Arranging project reviews	Station safety officer
Program evaluation		Operations inspections
	Plans of work	Operational trouble shooting
	Newsletter	Purview of revolving funds
	Program evaluation	

-----Howard W. Ottoson

## 1972-73 ENROLLMENTS

	<u>AGRICULTURE</u>		<u>HOME ECONOMICS</u>	
	1971-72	1972-73	1971-72	1972-73
Freshmen	415	374	272	300
homores	334	322	242	245
Juniors	366	391	259	272
Seniors	311	303	213	226
Unclassified	6	3	-	5
Total Undergraduate	1,432	1,393	986	1,048

## PERSONNEL ACTIONS

Bullerman, Loyd B. - Assistant Professor of Food Science and Tech. (reappointment)  
Johnson, Grant I. - Assistant Professor of Information (disability leave)  
Lorah, Richard P. - To Coordinator of Comm. Res. Development, Ag. Ext. (duty shift)  
Monahan, Ralph T. - Asst. Professor, Hort. and Forestry, Ag. Extension (resignation)

Paulson, James L. - Instructor in Agr. Economics (appointment)  
Teague, Howard S. - USMARC - Professor of Animal Science (courtesy appointment)  
Vandebur, Gene - USMARC - Instructor in Ag. Economics (resignation)  
Van Vleck, Loyd Dale - Visiting Professor of Animal Science (new appointment)

## GRANTS AND CONTRACTS

Danielson, D. M. - Animal Science - North Platte Station - Hoechst Pharmaceuticals	\$ 1,000
Fenster, C. R. - Agronomy - Scotts Bluff Station - Dow Chemical Co.	1,200
Hartung, T. E. - Food Science and Technology - NASA	25,000
Klopfenstein, Terry - Animal Science - Liquid Feed Commodities, Inc.	1,500
Klucas, Robert V. - Biochemistry and Nutrition - National Science Found.	40,397
Mayo, Z. B. and H. J. Ball - Entomology - American Cyanamid Company	1,750
Mayo, Z. B. - Entomology - Chemargo, A Division of Baychem Corporation	500
Moline, W. J. - Agronomy - Garst and Thomas Hybrid Corn Co.	2,500
Owen, F. G. - Animal Science - BZD Livestock Products, Inc.	1,250
Smika, Darryl E. - Agronomy - North Platte Station - USDA, ARS	1,600
Somerhalder, Bert R. - Agr'l Engineering - North Platte Sta. - Wood Brothers (Equip.)	3,351
Twiehaus, M. J. - Veterinary Science - Merck Company Foundation	8,000
Twiehaus, M. J. - Veterinary Science - Eli Lilly and Company	650
Wicks, Gail W. - Agronomy - North Platte Station - Chevron Chemical	1,110

## GENERAL NOTES

1. Grant support of projects in the Agricultural Experiment Station held about the same in total for FY 1972 as for FY 1971. Cooperative Agreements (federal) dropped somewhat because of the federal budget squeeze.
2. Major progress has been made in recent months in updating our project structure. There are still several projects which are due or overdue for attention. These are being cited and activated.
3. It is not necessary for industrial grants to go through the University Foundation for the grantors to secure desired tax benefits. Most such grants now go directly into University accounts for the identified research program. All can and the mechanics would be somewhat simpler if they did.
4. Coming NAES events?
  - a. Waste Management Program Seminar - November 29 and 30 (Center)
  - b. Sandhills Agricultural Laboratory Program meeting, December 14 (North Platte)
  - c. Comprehensive review of Agronomic research - December 4-7
  - d. Station - Extension Workers Conference - January 9-11
5. "Technology - the knack of so arranging the world that we don't have to experience it," Max Fresch.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - October 1972

3481. Competition of Annual Weeds and Sweet Spanish Onions. G. A. Wicks, D. N. Johnston, D. S. Nuland and E. J. Kinbacher. Weed Science.
3482. Genetic Studies of Induced Mutants in Melilotus Alba. III. Folded Leaflet, Elongated Stem, and Short-Petiole Dwarf. R. R. Ronnenkamp, F. A. Haskins and H. J. Gorz. Crop Science.
3483. Effect of Light, pH and Buffer Strength on the Autoxidation of Procine, Ovine and Bovine Myoglobins at Freezing Temperatures. N. Y. Zachariah and L. D. Satterlee. Journal of Food Science.
3484. A Survey of Student and Faculty Attitudes Toward Education in the College of Agriculture, University of Nebraska. Vernon Williams and Roy Dillon. National Association of Colleges and Teachers of Agriculture.
3485. Pathology of Neonatal Calf Diarrhea Induced by a Coronavirus-Like Agent. C. A. Mebus, E. L. Stair, M. B. Rhodes and M. J. Twiehaus. Veterinary Pathology.
3486. Comparative Virulence of Xanthomonas phaseoli Strains from Uganda, Colombia, and Nebraska. M. L. Schuster and D. P. Coyne. Plant Disease Reporter.
3487. Effect of Amino Acids on Non-Protein Nitrogen Utilization by G-F Swine. P. D. Platter, E. R. Peo, Jr., P. E. Vipperman, Jr. and P. J. Cunningham. Journal of Animal Science.
3488. Photic Entrainment of Circadian Rhythms by Illumination of Implanted Brain Tissues in the Cockroach Blaberus craniifer. Harold J. Ball and M. F. B. Chaudhury. Journal of Insect Physiology.
3489. Utilization of 1,3-Butanediol and Nonspecific Nitrogen in Human Adults. Constance Kies, R. B. Tobin, H. M. Fox and M. A. Mehlman. Journal of Nutrition.
3490. Effect of High Lysine Corn vs. a Corn Soybean Meal Diet on Age at Puberty in Gilts. P. J. Cunningham, C. W. Naber and Dwane R. Zimmerman. Journal of Animal Science.
3491. Anthelmintic Activity of Levamisole Against Ascaris, Trichuris, and Metastrongylus Infection in Swine. Donald L. Ferguson. The Cornell Veterinarian.
3492. Phaseolus Germplasm Tolerant to Common Blight Bacterium (Xanthomonas Phaseoli). Dermont P. Coyne and M. A. L. Schuster. Plant Disease Reporter.
3493. Some Effects of Herbicides or Mowing on Musk Thistle Seed Production. John L. Hatting and M. K. McCarty. Weed Science.
3494. Maintenance Levels of Protein and Energy and the Effect of Egg Production Upon Feed Consumption of Laying Hens. Earl W. Gleaves, Harlan Hochstetler and Hector Benitez. Poultry Science.
3495. Broad Basin Terraces for Sloping Cattle Feedlots. N. P. Swanson, J. C. Lorimor and L. N. Mielke. Transactions of the American Society of Agricultural Engineers.
3496. Sampling of Liquid and Nonfluid Wastes. Norris P. Swanson and Conrad B. Gilbertson. Transactions of the American Society of Agricultural Engineers.
3497. Effects of Patulin and Method of Application on Growth Stages of Wheat. J. R. Ellis and R. M. McCalla. Applied Microbiology.

- 3498. Chelated Trace Minerals for G-F Swine. A. A. Owen, E. R. Peo, Jr., P. J. Cunningham and B. D. Moser. Journal of Animal Science.
- 3499. Condition of Coliform Organisms Influencing Recovery of Subcultures on Selective Media. R. B. Maxcy. Journal of Applied Microbiology.
- 3500. Effect of EDTA on Utilization of Dietary Zinc by G.F Swine. A. A. Owen, E. R. Peo, Jr., P. J. Cunningham and B. D. Moser. Journal of Animal Science.
- 3501. Removal of Glucose from Eggs: A Review. Arun Kilara and K. M. Shahani. Journal of Food Science.
- 3502. An Improved Model for Simulating Herringbone and Side-Opening Milking Parlor Operations. C. F. Micke and R. D. Appleman. Journal of Dairy Science.

#### ABSTRACTS

- 72-111. Genetic Variation in a Green Ash Population of the Great Plains Region. Cheng C. Ying, Jean Schultz and Walter T. Bagley. The Eighth Central States Forest Tree Improvement Conference.
- 72-112. A Comparison of Poplar Clone Performance in Nebraska. Walter T. Bagley. The Eighth Central States Forest Tree Improvement Conference.
- 72-113. Volatility of Atrazine, Dicamba, Propachlor, and Trifluralin Under Moist and Dry Conditions. T. L. Lavy and J. Reeder. North Central Weed Control Conference Research Report.
- 72-114. Propachlor Mobility in Soil, Adsorbitivity to Charcoal and Subsequent Availability to Plants. T. L. Lavy and A. R. Martens. North Central Weed Control Conference Research Report.
- 72-115. Adsorption and Desorption of Atrazine, Butylate, and Picloram on Sand, Soil and Charcoal. T. L. Lavy and J. R. Ellis. North Central Weed Control Conference Research Report.
- 72-116. Herbicide Occurrence in Soils from Center Pivot Irrigation Systems. T. L. Lavy, C. W. Weidner and L. E. Wilson. North Central Weed Control Conference Research Report.
- 72-117. Biological Control of Musk Thistle. M. K. McCarty, Alex Martin and L. A. Morrow. North Central Weed Control Conference Research Report.
- 72-118. Effect of Several Herbicides on Fringed Sagebrush. M. K. McCarty and L. A. Morrow. North Central Weed Control Conference Research Report.
- 72-119. Corn Herbicide Rates When Incorporated by Center Pivot Irrigation. Russell S. Moomaw and Alex Martin. North Central Weed Control Conference Research Report.
- 72-120. Evaluation of Herbicide for No-Till Dryland Corn in Bromegrass Sod. Russell S. Moomaw and Alex Martin. North Central Weed Control Conference Research Report.
- 72-121. Factors Affecting Direct Radioassay of Herbicides in Soil T. L. Lavy. 1973 Weed Science Society of America Proceedings.
- 72-122. Sorghum Dessication with Glyphosate and Paraquat. L. L. Evetts and O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-123. Group Feedings Weaned Day-Old Pigs. David Murray Danielson. American Society of Animal Science.